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Progressive product design, strong technical ability
and high-growth business experience

Career Highlights

- *[Ernst & Young Entrepreneur of the Year Award](#)* *2000*, Emerging Technologies

- *Halifax Chamber of Commerce Bronze Award 2000*, Best New Business

- *Atlantic Progress Magazine* Top 50 CEO's 2000

- [*Sun Microsystems Java Cup*](#) Programming Contest:
  First place, Web category ($40,000 prize)

- Founded PhotoPoint.com (Halifax):
  - Developed original, patentable technology
  - Secured $43M investment from Softbank, USVP
  - Top 100 Internet site, millions of photos served daily
  - Largest photo sharing site 1998-2001, millions of members
  - Licensed code to Intel ($1.7M) for GatherRound.com
  - Licensed code to Epson ($1M) for Epson Photo Center (still in operation)
  - Developed and integrated E-commerce infrastructure for prints, merchandise
  - Led 75 employees in Halifax in development, tech, hosting, web, content
  - Led 25 employees in San Francisco in sales, marketing, P.R.
  - Retained majority of jobs in Canada, despite US funding
  - Developed and maintained a high reliability, highly scalable, secure web server infrastructure with redundant connectivity, auxiliary power

- Founded IronSentry.com (Halifax):
  - Patented technology to seamlessly archive, index, and search email (in pre-Gmail days)
  - Secured $500K seed funding
  - Grew to six employees in Halifax

- MKS, Inc (Waterloo):
  - Team Leader and architect for flagship product, *MKS Toolkit*
  - Developed *MKS Web Integrity* prototype
  - Developed *MKS Internet Anywhere* communications product

- IBM (Toronto)
  - Ensured ANSI standards compliance for IBM's C compiler

- Contract work (Nova Scotia):
  - Ported legacy Windows application to a SAAS model
  - Customized VOIP installations (including ProtoCase)
  - Ported commercial/military GPS product to handheld platform
  - Performed due diligence, troubleshooting for investment firm's portfolio companies
- Contributed code to security-focused *Qubes* operating system
- Expert witness for FBI in federal wire fraud case (resulting in a conviction)
- Taught required 3rd year Computing Science course, Dalhousie University
- Regular speaker at InnovaCorp tech. meetups

Skills

- Extensive understanding of electronics:
  - Analog and digital electronics design
  - Development of efficient, low-power, low-cost devices
  - Development of drivers for various displays, peripherals
  - Fluent with various microprocessor architectures (ARM, ATMega, AVR, Pic, x86, others)
  - Comfortable working in a variety of languages for embedded systems (assembler, machine code, C, C++, lua, uPython, FORTH, …)
  - Experienced with microcomputer protocols (UART, SPI, I2C/TWI, 1-Wire, …)
  - Reading and application of data sheets, specifications
- Experience with wide variety of programming languages, operating systems, databases, VM technologies, web serving and networking protocols, security methodologies, and encryption algorithms
- Low-level operating system abilities (e.g. device driver development)
- Optimization, debugging, troubleshooting, diagnostics
- Knowledge of Machine Learning, AI, Neural Networks
- Development of business plans, financial models
- Strong writing and presentation